

In the Specification:

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ABSTRACT OF THE DISCLOSURE

The invention relates to nuclear reactor control systems. The inventive nuclear reactor control system comprises a set of technical means for limiting an increment rate in reactivity by operating devices and for automatically stopping a nuclear reactor, wherein said set of technical means comprises actuators provided with drives and connections which transmit the motion from the actuator drives to the operating devices which are disposed outside of the reactor body. The reactor body comprises fixed elements arranged thereinside for engaging and disengaging the operating devices in such a way that said operating devices are movable after disengagement towards a decrement in reactivity only. Each operating device is provided with at least two actuators one of which is common for all operating devices or for a group of operating devices and the other actuator is individual for each operating device and disengages said device from the fixed element in any order with respect to other operating devices. The set of technical means is provided with two-position switches which are disposed inside the reactor body and have two fixed positions depending on the position of the switch control element corresponding to a critical value attained by one of

parameters determining the normal operation limits of the reactor.